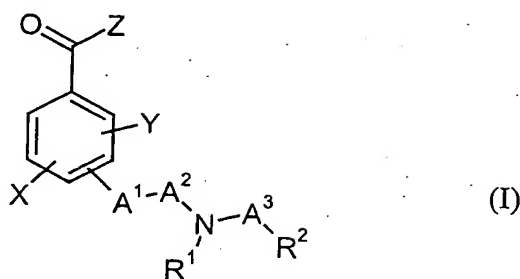


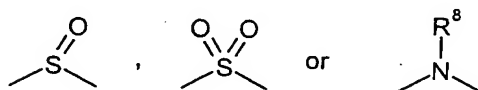
**Patent Claims**

1. Compound of the formula (I)



in which

$A^1$  represents a single bond, represents O (oxygen), S (sulphur) or the grouping

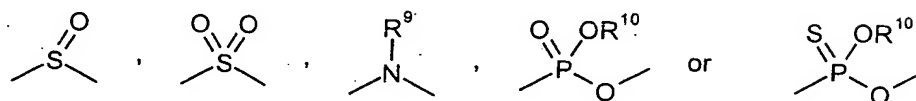


where

$R^8$  represents hydrogen, represents in each case optionally substituted alkyl, alkylcarbonylalkyl, alkoxy carbonylalkyl, alkylthio, alkylsulphinyl, alkylsulphonyl, alkenyl, alkenylcarbonylalkyl, alkenyloxy carbonylalkyl, alkynyl, alkynylcarbonylalkyl, alkynyloxy carbonylalkyl, cycloalkyl, cycloalkylcarbonylalkyl, cycloalkyloxy carbonylalkyl, cycloalkylalkyl, cycloalkylalkylcarbonylalkyl, cycloalkylalkoxy carbonylalkyl, aryl, arylcarbonylalkyl, aryloxy carbonylalkyl, arylalkyl, arylalkylcarbonylalkyl or arylalkoxy carbonylalkyl,

$A^2$  represents alkanediyl (alkylene), alkenediyl or alkynediyl,

$A^3$  represents O (oxygen), S (sulphur), or the grouping



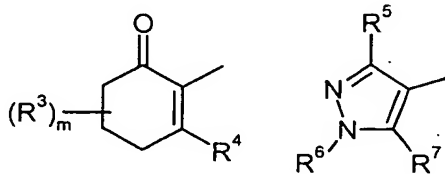
where

10  $R^9$  represents hydrogen or represents in each case optionally substituted alkyl, alkylcarbonyl, alkoxycarbonyl, alkylthio, alkylsulphinyl, alkylsulphonyl, alkenyl, alkenylcarbonyl, alkenyloxycarbonyl, alkynyl, alkynylcarbonyl, alkynyloxycarbonyl, cycloalkyl, cycloalkylcarbonyl, cycloalkyloxycarbonyl, cycloalkylalkyl, cycloalkylalkylcarbonyl, 15 cycloalkylalkoxycarbonyl, aryl, arylcarbonyl, aryloxycarbonyl, arylalkyl, arylalkylcarbonyl, arylalkoxycarbonyl, heterocyclyl, heterocyclylcarbonyl or heterocyclylalkyl, or

20  $R^9$  together with  $R^2$  and the nitrogen to which they are attached represents an optionally substituted heterocycle,

25  $R^{10}$  represents hydrogen, represents formyl or represents in each case optionally substituted alkyl, alkylcarbonyl, alkoxycarbonyl, alkylaminocarbonyl, dialkylaminocarbonyl, alkenyl, alkenylcarbonyl, alkenyloxycarbonyl, alkynyl, alkynylcarbonyl, alkynyloxycarbonyl, cycloalkyl, cycloalkylcarbonyl, cycloalkyloxycarbonyl, cycloalkylaminocarbonyl, cycloalkylalkyl, aryl, arylcarbonyl, aryloxycarbonyl, arylaminocarbonyl, arylalkyl, arylalkylcarbonyl, arylalkoxycarbonyl, heterocyclyl, heterocyclylcarbonyl or heterocyclylalkyl,

- 5  $R^1$  represents hydrogen or represents in each case optionally substituted alkyl, alkylthio, alkylsulphinyl, alkylsulphonyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, aryl, arylalkyl, arylcarbonylalkyl, heterocyclyl, or heterocyclylalkyl,
- 10  $R^2$  represents hydrogen, represents formyl or represents in each case optionally substituted alkyl, alkylcarbonyl, alkoxycarbonyl, alkylaminocarbonyl, dialkylaminocarbonyl, alkenyl, alkenylcarbonyl, alkenyloxycarbonyl, alkynyl, alkynylcarbonyl, alkynyloxycarbonyl, cycloalkyl, cycloalkylcarbonyl, cycloalkyloxycarbonyl, cycloalkylaminocarbonyl, cycloalkylalkyl, aryl, arylcarbonyl, aryloxycarbonyl, arylaminocarbonyl, arylalkyl, arylalkylcarbonyl, arylalkoxycarbonyl, heterocyclyl, heterocyclylcarbonyl or heterocyclylalkyl,
- 15  $X$  represents hydrogen, nitro, cyano, carboxyl, carbamoyl, thiocarbamoyl, halogen, or represents in each case optionally substituted alkyl, alkoxy, alkylthio, alkylsulphinyl, alkylsulphonyl, alkylamino, dialkylamino or dialkylaminosulphonyl,
- 20  $Y$  represents hydrogen, nitro, cyano, carboxyl, carbamoyl, thiocarbamoyl, halogen, or represents in each case optionally substituted alkyl, alkoxy, alkylthio, alkylsulphinyl, alkylsulphonyl, alkylamino, dialkylamino or dialkylaminosulphonyl, and
- 25  $Z$  represents one of the groupings below



where

m represents the numbers 0 to 6,

5         $R^3$  represents hydrogen, halogen or represents in each case optionally substituted alkyl, alkylthio or aryl, or – if m represents 2 – optionally also together with a second radical  $R^3$  represents oxygen or alkanediyl (alkylene),

10         $R^4$  represents hydroxyl, formyloxy, halogen, or represents in each case optionally substituted alkoxy, cycloalkoxy, alkylthio, cycloalkylthio, alkylsulphinyl, alkylsulphonyl, alkylcarbonyloxy, alkoxy carbonyloxy, alkylaminocarbonyloxy, alkylsulphonyloxy, alkenyloxy, alkynyloxy, aryloxy, arylthio, arylsulphinyl, arylsulphonyl, arylcarbonyloxy, aryl-  
15 carbonylalkoxy, arylsulphonyloxy, arylalkoxy, arylalkylthio, arylalkylsulphinyl, arylalkylsulphonyl or heterocyclyl which contains at least one nitrogen atom and is attached via nitrogen,

20         $R^5$  represents hydrogen, cyano, carbamoyl, thiocarbamoyl, halogen, or represents in each case optionally substituted alkyl, alkoxy, alkylthio, alkylsulphinyl, alkylsulphonyl, alkoxy carbonyl or cycloalkyl,

25         $R^6$  represents hydrogen or represents in each case optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, aryl or arylalkyl, and

30         $R^7$  represents hydroxyl, formyloxy, or represents in each case optionally substituted alkoxy, cycloalkyl, alkylcarbonyloxy, alkoxy carbonyloxy, alkoxy carbonylalkoxy, alkylaminocarbonyloxy, alkylsulphonyloxy, alkenyloxy, alkynyloxy, arylalkoxy, arylcarbonyloxy, arylcarbonyl-alkoxy, arylsulphonyloxy or aminocarbonyloxy.

2. Compound according to Claim 1 in which

5           A<sup>2</sup>   represents alkanediyl having 1 to 6 carbon atoms, alkenediyl or  
             alkynediyl having in each case 2 to 6 carbon atoms;

          R<sup>1</sup>   represents hydrogen,

10           represents optionally hydroxyl-, amino-, cyano-, carbamoyl-,  
             halogen-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkyl-carbonyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxycar-  
             bonyl-, C<sub>1</sub>-C<sub>4</sub>-alkylaminocarbonyl-, di(C<sub>1</sub>-C<sub>4</sub>-alkyl)amino-, di(C<sub>1</sub>-C<sub>4</sub>-  
             alkyl)amino-carbonyl- or N-(C<sub>1</sub>-C<sub>4</sub>-alkoxy)-N-(C<sub>1</sub>-C<sub>4</sub>-alkyl)amino-  
15           carbonyl-substituted alkyl having 1 to 6 carbon atoms, represents in  
             each case optionally halogen-substituted alkylthio, alkylsulphanyl or  
             alkylsulphonyl having in each case 1 to 6 carbon atoms, represents in  
             each case optionally halogen-substituted alkenyl or alkynyl having in  
             each case 2 to 6 carbon atoms,

20           represents in each case optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkyl-  
             substituted cycloalkyl, cycloalkylalkyl having in each case 3 to 6  
             carbon atoms in the cycloalkyl groups and, if appropriate, 1 to 4  
             carbon atoms in the alkyl moiety,

25           represents in each case optionally cyano-, nitro-, halogen-, C<sub>1</sub>-C<sub>4</sub>-  
             alkyl-, C<sub>1</sub>-C<sub>4</sub>-haloalkyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy- or C<sub>1</sub>-C<sub>4</sub>-haloalkoxy-  
             substituted aryl, arylalkyl or arylcarbonylalkyl having in each case 6  
             or 10 carbon atoms in the aryl groups and, if appropriate, 1 to 4 carbon  
             atoms in the alkyl moiety, or

30           represents in each case optionally nitro-, cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-  
             alkyl-, C<sub>1</sub>-C<sub>4</sub>-haloalkyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy- or C<sub>1</sub>-C<sub>4</sub>-haloalkoxy-

substituted heterocyclyl or heterocyclylalkyl where in each case the heterocyclyl grouping contains up to 10 carbon atoms and additionally at least one heteroatom selected from the group consisting of N (nitrogen, but at most 5 N atoms), O (oxygen, but at most 2 O atoms), S (sulphur, but at most 2 S atoms), SO and SO<sub>2</sub>, and optionally additionally one group selected from the group consisting of oxo (C=O), thioxo (C=S), imino (C=NH), cyanoimino (C=N-CN), nitroimino (C=N-NO<sub>2</sub>);

5  
10        R<sup>2</sup> represents hydrogen, represents optionally cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkyl-carbonyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxycarbonyl-, C<sub>1</sub>-C<sub>4</sub>-alkyl-aminocarbonyl- or di(C<sub>1</sub>-C<sub>4</sub>-alkyl)aminocarbonyl-substituted alkyl having 1 to 6 carbon atoms,

15        represents in each case optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkoxy-substituted alkylcarbonyl, alkoxycarbonyl or alkylaminocarbonyl having in each case 1 to 6 carbon atoms in the alkyl groups,

20        represents dialkylaminocarbonyl having in each case 1 to 4 carbon atoms in the alkyl groups,

25        represents in each case optionally halogen-substituted alkenyl, alkenylcarbonyl, alkenyloxycarbonyl, alkynyl, alkynylcarbonyl or alkynyloxycarbonyl having in each case 3 to 6 carbon atoms in the alkenyl or alkynyl groups, represents in each case optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkyl-substituted cycloalkyl, cycloalkylcarbonyl, cycloalkyloxycarbonyl, cycloalkylalkyl, cycloalkylalkylcarbonyl or cycloalkylalkoxycarbonyl having in each case 3 to 6 carbon atoms in the cycloalkyl groups and, if appropriate, 1 to 4 carbon atoms in the  
30        alkyl moiety,

represents in each case optionally nitro-, cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkyl-, C<sub>1</sub>-C<sub>4</sub>-haloalkyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy- or C<sub>1</sub>-C<sub>4</sub>-haloalkoxy-substituted aryl, arylcarbonyl, aryloxy carbonyl, arylaminocarbonyl, arylalkyl, arylalkylcarbonyl, arylalkoxy carbonyl or arylalkylamino-carbonyl having in each case 6 or 10 carbon atoms in the aryl groups and, if appropriate, 1 to 4 carbon atoms in the alkyl moiety, or

represents in each case optionally nitro-, cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkyl-, C<sub>1</sub>-C<sub>4</sub>-haloalkyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy- or C<sub>1</sub>-C<sub>4</sub>-haloalkoxy-substituted heterocyclyl, heterocyclylcarbonyl or heterocyclylalkyl, where the heterocyclyl group contains in each case up to 10 carbon atoms and additionally at least one heteroatom selected from the group consisting of N (nitrogen, but at most 5 N atoms), O (oxygen, but at most 2 O atoms), S (sulphur, but at most 2 S atoms), SO and SO<sub>2</sub>, and optionally additionally one group selected from the group consisting of oxo (C=O), thioxo (C=S), imino (C=NH), cyanoimino (C=N-CN), nitroimino (C=N-NO<sub>2</sub>);

R<sup>3</sup> represents hydrogen, halogen, represents in each case optionally cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkylthio-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphinyl or C<sub>1</sub>-C<sub>4</sub>-alkylsulphonyl-substituted alkyl or alkylthio having in each case 1 to 6 carbon atoms, or represents phenyl, or - if m represents 2 - optionally also together with a second radical R<sup>3</sup> represents oxygen or alkanediyl (alkylene) having 3 to 5 carbon atoms;

R<sup>4</sup> represents hydroxyl, formyloxy, halogen, represents in each case optionally cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkylthio-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphinyl- or C<sub>1</sub>-C<sub>4</sub>-alkylsulphonyl-substituted alkoxy, alkylthio, alkylsulphinyl, alkylsulphonyl, alkylcarbonyloxy, alkoxycarbonyloxy, arylaminocarbonyloxy or alkylsulphonyloxy having in each case 1 to

6 carbon atoms, represents in each case optionally halogen-substituted alkenyloxy or alkynyloxy having in each case 3 to 6 carbon atoms, represents in each case optionally nitro-, cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkyl-, C<sub>1</sub>-C<sub>4</sub>-haloalkyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-haloalkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkylthio-, C<sub>1</sub>-C<sub>4</sub>-haloalkylthio-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphinyl-, C<sub>1</sub>-C<sub>4</sub>-haloalkylsulphinyl-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphonyl- or C<sub>1</sub>-C<sub>4</sub>-haloalkylsulphonyl-substituted aryloxy, arylthio, arylsulphinyl, arylsulphonyl, aryl-carbonyloxy, arylcarbonylalkoxy, arylsulphonyloxy, arylalkoxy, arylalkylthio, arylalkylsulphinyl or arylalkylsulphonyl having in each case 6 or 10 carbon atoms in the aryl group and, if appropriate, 1 to 4 carbon atoms in the alkyl moiety, represents in each case optionally cyano-, halogen-, oxo-, hydroxyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkyl-substituted heterocyclyl having 5 or 6 ring atoms comprising at least 1 nitrogen atom and optionally up to 2 oxygen atoms, sulphur atoms and 3 nitrogen atoms, where in total not more than 4 heteroatoms are present and where the heterocycle is attached via the nitrogen;

R<sup>5</sup> represents hydrogen, cyano, carbamoyl, thiocarbamoyl, halogen, represents in each case optionally cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkylthio-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphinyl- or C<sub>1</sub>-C<sub>4</sub>-alkylsulphonyl-substituted alkyl, alkoxy, alkylthio, alkylsulphinyl, alkylsulphonyl or alkoxycarbonyl having in each case 1 to 6 carbon atoms in the alkyl groups, or represents optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkyl-substituted cycloalkyl having 3 to 6 carbon atoms;

R<sup>6</sup> represents hydrogen, represents optionally cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkylthio-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphinyl- or C<sub>1</sub>-C<sub>4</sub>-alkylsulphonyl-substituted alkyl having 1 to 6 carbon atoms, represents in each case optionally cyano- or halogen-substituted alkenyl or alkynyl having in each case 3 to 6 carbon atoms, represents in each case optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkyl-substituted cycloalkyl or



cycloalkylalkyl having in each case 3 to 6 carbon atoms in the cycloalkyl group and, if appropriate, 1 to 4 carbon atoms in the alkyl moiety, or represents in each case optionally nitro-, cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkyl-, C<sub>1</sub>-C<sub>4</sub>-haloalkyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-haloalkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkylthio-, C<sub>1</sub>-C<sub>4</sub>-haloalkylthio-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphinyl-, C<sub>1</sub>-C<sub>4</sub>-haloalkylsulphinyl-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphonyl- or C<sub>1</sub>-C<sub>4</sub>-haloalkylsulphonyl-substituted aryl or arylalkyl having in each case 6 or 10 carbon atoms in the aryl group and, if appropriate, 1 to 4 carbon atoms in the alkyl moiety;

R<sup>7</sup> represents hydroxyl, formyloxy, represents in each case optionally alkyl-, cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkoxy-substituted alkoxy, alkylcarbonyloxy, alkoxycarbonyloxy, alkoxycarbonylalkoxy, alkylaminocarbonyloxy or alkylsulphonyloxy having in each case 1 to 6 carbon atoms in the alkyl groups, represents in each case optionally cyano- or halogen-substituted alkenyloxy or alkynyloxy having in each case 3 to 6 carbon atoms, or represents in each case optionally nitro-, cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkyl-, C<sub>1</sub>-C<sub>4</sub>-haloalkyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-haloalkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkylthio-, C<sub>1</sub>-C<sub>4</sub>-haloalkylthio-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphinyl-, C<sub>1</sub>-C<sub>4</sub>-haloalkylsulphinyl-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphonyl- or C<sub>1</sub>-C<sub>4</sub>-haloalkylsulphonyl-substituted arylalkoxy, arylcarbonyloxy, arylcarbonylalkoxy or arylsulphonyloxy having in each case 6 or 10 carbon atoms in the aryl group and, if appropriate, 1 to 4 carbon atoms in the alkyl moiety;

R<sup>8</sup> represents hydrogen, represents optionally hydroxyl-, amino-, cyano-, carbamoyl-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkyl-carbonyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxycarbonyl-, C<sub>1</sub>-C<sub>4</sub>-alkylaminocarbonyl- or di(C<sub>1</sub>-C<sub>4</sub>-alkyl)-aminocarbonyl-substituted alkyl having 1 to 6 carbon atoms,

represents in each case optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkoxy-substituted alkylcarbonyl or alkoxycarbonyl having in each case 1 to 6 carbon atoms in the alkyl groups,

5 represents in each case optionally halogen-substituted alkylthio, alkylsulphinyl or alkylsulphonyl having in each case 1 to 6 carbon atoms, represents in each case optionally halogen-substituted alkenyl, alkenylcarbonyl, alkenyloxycarbonyl, alkynyl, alkynylcarbonyl or alkynyloxycarbonyl having in each case 2 to 6 carbon atoms in the  
10 alkenyl or alkynyl groups,

represents in each case optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkyl-substituted cycloalkyl, cycloalkylcarbonyl, cycloalkyloxycarbonyl, cycloalkylalkyl, cycloalkylalkylcarbonyl or cycloalkylalkoxycarbonyl  
15 having in each case 3 to 6 carbon atoms in the cycloalkyl groups and, if appropriate, 1 to 4 carbon atoms in the alkyl moiety, or

represents in each case optionally cyano-, nitro-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkyl-, C<sub>1</sub>-C<sub>4</sub>-haloalkyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy- or C<sub>1</sub>-C<sub>4</sub>-haloalkoxy-substituted aryl, arylcarbonyl, aryloxycarbonyl, arylalkyl, arylalkyl-  
20 carbonyl or arylalkoxycarbonyl having in each case 6 or 10 carbon atoms in the aryl groups and, if appropriate, 1 to 4 carbon atoms in the alkyl moiety;

25 R<sup>9</sup> represents hydrogen,

represents optionally hydroxyl-, amino-, cyano-, carbamoyl-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkyl-carbonyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-carbonyl-, C<sub>1</sub>-C<sub>4</sub>-alkylaminocarbonyl or di(C<sub>1</sub>-C<sub>4</sub>-alkyl)amino-  
30 carbonyl-substituted alkyl having 1 to 6 carbon atoms,

represents in each case optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkoxy-substituted alkylcarbonyl or alkoxy carbonyl having in each case 1 to 6 carbon atoms in the alkyl groups,

5 represents in each case optionally halogen-substituted alkylthio, alkylsulphinyl or alkylsulphonyl having in each case 1 to 6 carbon atoms,

10 represents in each case optionally halogen-substituted alkenyl, alkenylcarbonyl, alkenyloxy carbonyl, alkynyl, alkynylcarbonyl or alkynyloxy carbonyl having in each case 2 to 6 carbon atoms in the alkenyl or alkynyl groups,

15 represents in each case optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkyl-substituted cycloalkyl, cycloalkylcarbonyl, cycloalkyloxy carbonyl, cycloalkylalkyl, cycloalkylalkylcarbonyl or cycloalkylalkoxy carbonyl having in each case 3 to 6 carbon atoms in the cycloalkyl groups and, if appropriate, 1 to 4 carbon atoms in the alkyl moiety,

20 represents in each case optionally cyano-, nitro-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkyl-, C<sub>1</sub>-C<sub>4</sub>-haloalkyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy- or C<sub>1</sub>-C<sub>4</sub>-haloalkoxy-substituted aryl, arylcarbonyl, aryloxy carbonyl, arylalkyl, arylalkylcarbonyl or arylalkoxy carbonyl having in each case 6 or 10 carbon atoms in the aryl groups and, if appropriate, 1 to 4 carbon atoms in the  
25 alkyl moiety, or

30 represents in each case optionally nitro-, cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkyl-, C<sub>1</sub>-C<sub>4</sub>-haloalkyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy- or C<sub>1</sub>-C<sub>4</sub>-haloalkoxy-substituted heterocyclyl, heterocyclylcarbonyl or heterocyclylalkyl, where in each case the heterocyclyl grouping contains up to 10 carbon atoms and additionally at least one heteroatom selected from the group

consisting of N (but at most 5 N atoms), O (but at most 2 O atoms), S (but at most 2 S atoms), SO and SO<sub>2</sub>, and optionally additionally one group selected from the group consisting of oxo (C=O), thioxo (C=S), imino (C=NH), cyanoimino (C=N-CN), nitroimino (C=N-NO<sub>2</sub>), or together with R<sup>2</sup> and the nitrogen to which they are attached represents an optionally nitro-, cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkyl-, C<sub>1</sub>-C<sub>4</sub>-haloalkyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy- or C<sub>1</sub>-C<sub>4</sub>-haloalkoxy-substituted heterocycle which contains 1 nitrogen atom and 1 to 10 carbon atoms and optionally one further heteroatom from the group consisting of N (but at most 4 further N atoms), O (but at most 2 O atoms), S (but at most 2 S atoms), SO and SO<sub>2</sub>, and optionally additionally one group selected from the group consisting of oxo (C=O), thioxo (C=S), imino (C=NH), cyanoimino (C=N-CN), nitroimino (C=N-NO<sub>2</sub>);

R<sup>10</sup> represents hydrogen, formyl,

represents optionally cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkyl-carbonyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxycarbonyl-, C<sub>1</sub>-C<sub>4</sub>-alkylaminocarbonyl- or di-(C<sub>1</sub>-C<sub>4</sub>-alkyl)aminocarbonyl-substituted alkyl having 1 to 6 carbon atoms;

X represents hydrogen, nitro, cyano, carboxyl, carbamoyl, thiocarbamoyl, halogen, or represents in each case optionally cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkylthio-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphinyl- or C<sub>1</sub>-C<sub>4</sub>-alkylsulphonyl-substituted alkyl, alkoxy, alkylthio, alkylsulphinyl, alkylsulphonyl, alkylamino, dialkylamino or dialkylamino-sulphonyl having in each case 1 to 6 carbon atoms in the alkyl groups;

Y represents hydrogen, nitro, cyano, carboxyl, carbamoyl, thiocarbamoyl, halogen, or represents in each case optionally cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkylthio-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphinyl- or

C<sub>1</sub>-C<sub>4</sub>-alkylsulphonyl-substituted alkyl, alkoxy, alkylthio, alkylsulphinyl, alkylsulphonyl, alkylamino, dialkylamino or dialkylaminosulphonyl having in each case 1 to 6 carbon atoms in the alkyl groups;

5 m represents the numbers 0, 1, 2 or 3.

3. Compound according to Claim 1 or 2 in which

10 A<sup>2</sup> represents methylene (-CH<sub>2</sub>-), ethane-1,1-diyl (-CH(CH<sub>3</sub>)-), ethane-1,2-diyl (dimethylene, -CH<sub>2</sub>CH<sub>2</sub>-), propane-1,1-diyl (-CH(C<sub>2</sub>H<sub>5</sub>)-), propane-1,2-diyl (-CH(CH<sub>3</sub>)CH<sub>2</sub>-), propane-1,3-diyl (-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-), butane-1,3-diyl (-CH(CH<sub>3</sub>)CH<sub>2</sub>CH<sub>2</sub>-), butane-1,4-diyl (-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-), ethenediyl, propenediyl, butenediyl, ethynediyl, propynediyl or butynediyl;

15

R<sup>1</sup> represents hydrogen,

20 represents in each case optionally hydroxyl-, amino-, cyano-, carbamoyl-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-, acetyl-, propionyl-, n- or i-butyryl-, methoxycarbonyl-, ethoxycarbonyl-, n- or i-propoxycarbonyl-, methylaminocarbonyl-, ethylaminocarbonyl-, n- or i-propylaminocarbonyl-, dimethylamino-, diethylamino-, dimethylaminocarbonyl-, diethylaminocarbonyl- or N-methoxy-N-methylaminocarbonyl-substituted methyl, ethyl, n- or i-propyl, n-, i- or s-butyl, n-, i- or s-pentyl,

25

30 represents in each case optionally fluorine- and/or chlorine-substituted methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio, methylsulphinyl, ethylsulphinyl, n- or i-propylsulphinyl, methylsulphonyl, ethylsulphonyl, n- or i-propylsulphonyl,

represents in each case optionally fluorine-, chlorine- and/or bromine-substituted propenyl, butenyl, propynyl or butynyl,

5 represents in each case optionally cyano-, fluorine-, chlorine-, methyl- or ethyl-substituted cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cyclopropylmethyl, cyclobutylmethyl, cyclopentylmethyl or cyclohexylmethyl,

10 represents in each case optionally cyano-, nitro-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, s- or i-propoxy-, n-, i-, s- or t-butoxy-, difluoromethoxy- or trifluoromethoxy-substituted phenyl, benzoyl, benzyl, phenylethyl or phenylcarbonylmethyl, or

15 represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, difluoromethoxy- or trifluoromethoxy-substituted heterocyclyl or heterocyclalkyl from the group consisting of furyl, furylmethyl, thienyl, thienylmethyl, pyrrolidinyl, oxopyrrolidinyl, pyrrolyl, indolyl, pyrrolylmethyl, pyrazolyl, pyrazolylmethyl, oxazolyl, oxazolylmethyl, isoxazolyl, thiazolyl, thiazolylmethyl, dihydropyranyl, dihydropyranylmethyl, piperidinyl, oxopiperidinyl, morpholinyl, piperazinyl, pyridinyl, pyridinylcarbonyl or pyridinylmethyl;

25  $R^2$  represents hydrogen,

30 represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-, acetyl-, propionyl-, n- or i-butyroyl-, methoxycarbonyl-, ethoxycarbonyl-, n- or i-propoxycarbonyl-, methylaminocarbonyl-, ethylaminocarbonyl-, n- or i-

propylaminocarbonyl-, dimethylaminocarbonyl- or diethylamino-  
carbonyl-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl,  
n-, i-, s- or t-pentyl,

5 represents in each case optionally cyano-, fluorine-, chlorine-,  
methoxy-, ethoxy-, n- or i-propoxy-substituted acetyl, propionyl, n- or  
i-butyryl, methoxycarbonyl, ethoxycarbonyl, n- or i-propoxy-  
carbonyl, methylaminocarbonyl, ethylaminocarbonyl, n- or i-propyl-  
aminocarbonyl,

10 represents dimethylaminocarbonyl, diethylaminocarbonyl or dipropyl-  
aminocarbonyl,

15 represents in each case optionally fluorine-, chlorine- and/or bromine-  
substituted propenyl, butenyl, propenylcarbonyl, butenylcarbonyl,  
propenyloxycarbonyl, butenyloxycarbonyl, propenylaminocarbonyl,  
butenylaminocarbonyl, propynyl, butynyl, propynylcarbonyl, butynyl-  
carbonyl, propynyloxycarbonyl or butynyloxycarbonyl,

20 represents in each case optionally cyano-, fluorine-, chlorine-, methyl-  
or ethyl-substituted cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl,  
cyclopropylcarbonyl, cyclobutylcarbonyl, cyclopentylcarbonyl,  
cyclohexylcarbonyl, cyclopropyloxycarbonyl, cyclobutyloxycarbonyl,  
cyclopentyloxycarbonyl, cyclohexyloxycarbonyl, cyclopropylmethyl,  
25 cyclobutylmethyl, cyclopentylmethyl, cyclohexylmethyl, cyclopropyl-  
methylcarbonyl, cyclobutylmethylcarbonyl, cyclopentylmethyl-  
carbonyl, cyclohexylmethylcarbonyl, cyclopropylmethoxycarbonyl,  
cyclobutylmethoxycarbonyl, cyclopentylmethoxycarbonyl,  
cyclohexylmethoxycarbonyl,

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represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, difluoromethoxy- or trifluoromethoxy-substituted phenyl, naphthyl, benzoyl, phenoxy-carbonyl, phenylaminocarbonyl, benzyl, phenylethyl, phenylmethylcarbonyl or phenylmethoxycarbonyl, or

represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, difluoromethoxy- or trifluoromethoxy-substituted furyl, furylcarbonyl, furylmethyl, thienyl, thienylcarbonyl, thienylmethyl, pyrrolidinyl, oxopyrrolidinyl, pyrrolyl, indolyl, pyrrolylmethyl, pyrazolyl, pyrazolylcarbonyl, pyrazolylmethyl, oxazolyl, oxazolylmethyl, isoxazolyl, isoxazolylcarbonyl, thiazolyl, thiazolylmethyl, 2-oxo-1,3-diazacyclopentyl (2-oxoimidazolidinyl), piperidinyl, oxopiperidinyl, 2-oxo-1,3-diazacyclohexyl, morpholinyl, thiomorpholinyl, 3-oxo-morpholinyl, 3-oxothiomorpholinyl, piperazinyl, pyridinyl, pyridinylcarbonyl or pyridinylmethyl;

$R^3$  represents hydrogen, fluorine, chlorine or bromine, represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-, methylthio-, ethylthio-, n- or i-propylthio-, methylsulphinyl-, ethylsulphinyl-, methylsulphonyl- or ethylsulphonyl-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio, or represents phenyl; or – if m represents 2 – optionally also together with a second radical  $R^3$  represents oxygen, propane-1,3-diyl or butane-1,4-diyl;



$R^4$  represents hydroxyl, formyloxy, fluorine or chlorine, represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-, methylthio-, ethylthio-, n- or i-propylthio-, methylsulphinyl-, ethylsulphinyl-, methylsulphonyl- or ethylsulphonyl-substituted methoxy, ethoxy, n- or i-propoxy, methylthio, ethylthio, n- or i-propylthio, methylsulphinyl, ethylsulphinyl, methylsulphonyl, ethylsulphonyl, acetyloxy, propionyloxy, n- or i-butyroxyloxy, methoxycarbonyloxy, ethoxycarbonyloxy, n- or i-propoxycarbonyloxy, methylaminocarbonyloxy, ethylaminocarbonyloxy, n- or i-propylaminocarbonyloxy, methylsulphonyloxy, ethylsulphonyloxy, n- or i-propylsulphonyloxy, represents in each case optionally fluorine-, chlorine- and/or bromine-substituted propenyl-oxy, butenyloxy, propynyloxy or butynyloxy, represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, difluoromethoxy-, trifluoromethoxy-, methylthio-, ethylthio-, n- or i-propylthio-, difluoromethylthio-, trifluoromethylthio-, methylsulphinyl-, ethylsulphinyl-, trifluoromethylsulphinyl-, methylsulphonyl-, ethylsulphonyl- or trifluoromethylsulphonyl-substituted phenyloxy, phenylthio, phenylsulphinyl, phenylsulphonyl, phenylcarbonyloxy, phenylcarbonylmethoxy, phenylsulphonyloxy, phenylmethoxy, phenylmethylthio, phenylmethylsulphinyl or phenylmethylsulphonyl, represents in each case optionally cyano-, oxo-, fluorine-, chlorine-, methyl-, ethyl-, methoxy-, ethoxy-, methylthio-, ethylthio- substituted pyrrolyl, pyrrolinyl, pyrrolidinyl, pyrazolyl, pyrazolinyl, pyrazolidinyl, imidazolyl, imidazolinyl, imidazolidinyl, triazolyl, triazolinyl, triazolidinyl, tetrazolyl, tetrazolinyl, tetrazolidinyl, oxazolyl, oxazolinyl, oxazolidinyl, isoxazolyl, isoxazolinyl, isoxazolidinyl, thiazolyl, thiazolinyl, thiazolidinyl, thiadiazolyl, indolyl, piperidinyl, piperazinyl, oxazinyl, thiazinyl, morpholinyl;

R<sup>5</sup> represents hydrogen, cyano, carbamoyl, thiocarbamoyl, fluorine, chlorine or bromine, represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-, methylthio-, ethylthio-, n- or i-propylthio-, methylsulphinyl-, ethylsulphinyl-, methylsulphonyl- or ethylsulphonyl-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, methoxy, ethoxy, n- or i-propoxy, methylthio, ethylthio, n- or i-propylthio, methylsulphinyl, ethylsulphinyl, methylsulphonyl, ethylsulphonyl, methoxycarbonyl, ethoxycarbonyl, n- or i-propoxycarbonyl, or represents in each case optionally cyano-, fluorine-, chlorine-, methyl- or ethyl-substituted cyclopropyl, cyclobutyl, cyclopentyl or cyclohexyl;

R<sup>6</sup> represents hydrogen, represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-, methylthio-, ethylthio-, n- or i-propylthio-, methylsulphinyl-, ethylsulphinyl-, methylsulphonyl- or ethylsulphonyl-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, represents in each case optionally cyano-, fluorine-, chlorine- or bromine-substituted propenyl, butenyl, propynyl or butynyl, represents in each case optionally cyano-, fluorine-, chlorine-, methyl- or ethyl-substituted cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cyclopropylmethyl, cyclobutylmethyl, cyclopentylmethyl or cyclohexylmethyl, or represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, difluoromethoxy-, trifluoromethoxy-, methylthio-, ethylthio-, n- or i-propylthio-, n-, i-, s- or t-butylthio-, difluoromethylthio-, trifluoromethylthio-, methylsulphinyl-, ethylsulphinyl-, trifluoromethylsulphinyl-, methylsulphonyl-, ethylsulphonyl- or trifluoromethylsulphonyl-substituted phenyl or phenylmethyl;

R<sup>7</sup> represents hydroxyl, formyloxy, represents in each case optionally alkyl-, cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-substituted methoxy, ethoxy, n- or i-propoxy, acetyloxy, propionyloxy, n- or i-butyroxyloxy, methoxycarbonyloxy, ethoxycarbonyloxy, n- or i-propoxycarbonyloxy, methylaminocarbonyloxy, ethylaminocarbonyloxy, n- or i-propylaminocarbonyloxy, ethoxycarbonylmethoxy, methoxycarbonylmethoxy, methylsulphonyloxy, ethylsulphonyloxy, n- or i-propylsulphonyloxy, represents in each case optionally cyano-, fluorine-, chlorine- or bromine-substituted propenyloxy, butenyloxy, propynyloxy or butynyloxy, or represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, difluoromethoxy-, trifluoromethoxy-, methylthio-, ethylthio-, n- or i-propylthio-, difluoromethylthio-, trifluoromethylthio-, methylsulphinyl-, ethylsulphinyl-, trifluoromethylsulphinyl-, methylsulphonyl-, ethylsulphonyl- or trifluoromethylsulphonyl-substituted phenylmethoxy, phenylcarbonyloxy, phenylcarbonylmethoxy or phenylsulphonyloxy;

R<sup>8</sup> represents hydrogen,

represents in each case optionally hydroxyl-, amino-, cyano-, carbamoyl-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-, acetyl-, propionyl-, n- or i-butyroyl-, methoxycarbonyl-, ethoxycarbonyl-, n- or i-propoxycarbonyl-, methylaminocarbonyl-, ethylaminocarbonyl-, n- or i-propylaminocarbonyl-, dimethylaminocarbonyl- or diethylaminocarbonyl-substituted methyl, ethyl, n- or i-propyl, n-, i- or s-butyl, n-, i- or s-pentyl,

represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-substituted acetyl, propionyl, n- or i-butyryl, methoxycarbonyl, ethoxycarbonyl, n- or i-propoxycarbonyl,

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represents in each case optionally fluorine- and/or chlorine-substituted methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio, methylsulphinyl, ethylsulphinyl, n- or i-propylsulphinyl, methylsulphonyl, ethylsulphonyl, n- or i-propylsulphonyl,

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represents in each case optionally fluorine-, chlorine- and/or bromine-substituted propenyl, butenyl, propenylcarbonyl, butenylcarbonyl, propenyloxycarbonyl, butenyloxycarbonyl, propynyl, butynyl, propynylcarbonyl, butynylcarbonyl, propynyloxycarbonyl or butynyloxycarbonyl,

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represents in each case optionally cyano-, fluorine-, chlorine-, methyl- or ethyl-substituted cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cyclopropylcarbonyl, cyclobutylcarbonyl, cyclopentylcarbonyl, cyclohexylcarbonyl, cyclopropyloxycarbonyl, cyclobutyloxycarbonyl, cyclopentyloxycarbonyl, cyclohexyloxycarbonyl, cyclopropylmethyl, cyclobutylmethyl, cyclopentylmethyl, cyclohexylmethyl, cyclopropylmethylcarbonyl, cyclobutylmethylcarbonyl, cyclopentylmethylcarbonyl, cyclohexylmethylcarbonyl, cyclopropylmethoxycarbonyl, cyclobutylmethoxycarbonyl, cyclopentylmethoxycarbonyl, cyclohexylmethoxycarbonyl, or

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represents in each case optionally cyano-, nitro-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, s- or i-propoxy-, n-, i-, s- or t-butoxy-, difluoromethoxy- or trifluoromethoxy-substituted phenyl,

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benzoyl, phenoxycarbonyl, benzyl, phenylethyl, phenylmethyl-carbonyl or phenylmethoxycarbonyl;

5  $R^9$  represents hydrogen, represents in each case optionally hydroxyl-, amino-, cyano-, carbamoyl-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-, acetyl-, propionyl-, n- or i-butyroyl-, methoxycarbonyl-, ethoxycarbonyl-, n- or i-propoxycarbonyl-, methylaminocarbonyl-, ethylaminocarbonyl-, n- or i-propylaminocarbonyl-, dimethylaminocarbonyl- or diethylaminocarbonyl-  
10 substituted methyl, ethyl, n- or i-propyl, n-, i- or s-butyl, n-, i- or s-pentyl,

represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-substituted acetyl, propionyl, n- or  
15 i-butyroyl, methoxycarbonyl, ethoxycarbonyl, n- or i-propoxycarbonyl,

represents in each case optionally fluorine- and/or chlorine-substituted methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio,  
20 methylsulphinyl, ethylsulphinyl, n- or i-propylsulphinyl, methylsulphonyl, ethylsulphonyl, n- or i-propylsulphonyl,

represents in each case optionally fluorine-, chlorine- and/or bromine-substituted propenyl, butenyl, propenylcarbonyl, butenylcarbonyl,  
25 propenyloxycarbonyl, butenyloxycarbonyl, propynyl, butynyl, propynylcarbonyl, butynylcarbonyl, propynyloxycarbonyl or butynyloxycarbonyl,

represents in each case optionally cyano-, fluorine-, chlorine-, methyl-  
30 or ethyl-substituted cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cyclopropylcarbonyl, cyclobutylcarbonyl, cyclopentylcarbonyl, cyclo-

hexylcarbonyl, cyclopropyloxycarbonyl, cyclobutyloxycarbonyl, cyclopentyloxycarbonyl, cyclohexyloxycarbonyl, cyclopropylmethyl, cyclobutylmethyl, cyclopentylmethyl, cyclohexylmethyl, cyclopropylmethylcarbonyl, cyclobutylmethylcarbonyl, cyclopentylmethylcarbonyl, cyclohexylmethylcarbonyl, cyclopropylmethoxycarbonyl, cyclobutylmethoxycarbonyl, cyclopentylmethoxycarbonyl, cyclohexylmethoxycarbonyl,

represents in each case optionally cyano-, nitro-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, s- or i-propoxy-, n-, i-, s- or t-butoxy-, difluoromethoxy- or trifluoromethoxy-substituted phenyl, benzoyl, phenoxycarbonyl, benzyl, phenylethyl, phenylmethylcarbonyl or phenylmethoxycarbonyl, or

represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, difluoromethoxy- or trifluoromethoxy-substituted heterocyclyl, heterocyclylcarbonyl and heterocyclylalkyl from the group consisting of furyl, furylcarbonyl, furylmethyl, thienyl, thienylcarbonyl, thienylmethyl, pyrrolidinyl, oxopyrrolidinyl, pyrrolyl, indolyl, pyrrolylmethyl, pyrazolyl, pyrazolylcarbonyl, pyrazolylmethyl, oxazolyl, oxazolylmethyl, isoxazolyl, isoxazolylcarbonyl, thiazolyl, thiazolylmethyl, piperidinyl, oxopiperidinyl, morpholinyl, piperazinyl, pyridinyl, pyridinylcarbonyl or pyridinylmethyl, or

together with  $R^2$  and the nitrogen to which they are attached represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, difluoromethoxy- or tri-

fluoromethoxy-substituted pyrrolidinyl, oxopyrrolidinyl, pyrrolyl, indolyl, pyrazolyl, oxazolyl, isoxazolyl, dihydropyranyl, piperidinyl, thiomorpholinyl, 3-oxomorpholinyl, 3-oxothiomorpholinyl, oxo-piperidinyl, morpholinyl, piperazinyl, imidazolyl, imidazolidinyl, oxo-imidazolidinyl, triazol, triazoliny, tetrazoliny or pyridiny;

R<sup>10</sup> represents hydrogen, formyl,

represents optionally cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkyl-carbonyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxycarbonyl-, C<sub>1</sub>-C<sub>4</sub>-alkylaminocarbonyl- or di(C<sub>1</sub>-C<sub>4</sub>-alkyl)aminocarbonyl-substituted alkyl having 1 to 6 carbon atoms;

X represents hydrogen, nitro, cyano, carboxyl, carbamoyl, thiocarbamoyl, fluorine, chlorine, bromine, iodine, or represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, methylthio-, ethylthio-, methylsulphinyl-, ethylsulphinyl-, methylsulphonyl- or ethylsulphonyl-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, methoxy, ethoxy, n- or i-propoxy, n-, i-, s- or t-butoxy, methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio, methylsulphinyl, ethylsulphinyl, n- or i-propylsulphinyl, methylsulphonyl, ethylsulphonyl, n- or i-propylsulphonyl, methylamino, ethylamino, n- or i-propylamino, n-, i-, s- or t-butylamino, dimethylamino, diethylamino, dimethylaminosulphonyl or diethylaminosulphonyl;

Y represents hydrogen, nitro, cyano, carboxyl, carbamoyl, thiocarbamoyl, fluorine, chlorine, bromine, iodine, or represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, methylthio-, ethylthio-, methylsulphinyl-, ethylsulphinyl-, methylsulphonyl- or ethylsulphonyl-substituted methyl, ethyl, n- or i-propyl,

n-, i-, s- or t-butyl, methoxy, ethoxy, n- or i-propoxy, n-, i-, s- or t-butoxy, methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio, methylsulphinyl, ethylsulphinyl, n- or i-propylsulphinyl, methylsulphonyl, ethylsulphonyl, n- or i-propylsulphonyl, methylamino, ethylamino, n- or i-propylamino, n-, i-, s- or t-butylamino, dimethylamino, diethylamino, dimethylaminosulphonyl or diethylaminosulphonyl;

m represents the numbers 0, 1 or 2.

4. Compound according to any of Claims 1, 2 or 3 in which

$A^2$  represents methylene ( $-CH_2-$ ), ethane-1,1-diyl ( $-CH(CH_3)-$ ), ethane-1,2-diyl (dimethylene,  $-CH_2CH_2-$ ), propane-1,2-diyl ( $-CH(CH_3)CH_2-$ ) or propane-1,3-diyl ( $-CH_2CH_2CH_2-$ );

$R^1$  represents hydrogen,

represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-, acetyl-, propionyl-, methoxycarbonyl- or ethoxycarbonyl-substituted methyl, ethyl, n- or i-propyl,

represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-substituted acetyl-, propionyl-, methoxycarbonyl or ethoxycarbonyl,

represents in each case optionally fluorine- and/or chlorine-substituted methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio, methylsulphinyl, ethylsulphinyl, methylsulphonyl or ethylsulphonyl,



represents in each case optionally fluorine-, chlorine- and/or bromine-substituted propenyl, butenyl, propynyl or butynyl,

5 represents in each case optionally fluorine-, chlorine- or methyl-substituted cyclopropyl, cyclopropylcarbonyl or cyclopropylmethyl, or

10 represents in each case optionally cyano-, nitro-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, s- or i-propoxy-, difluoromethoxy- or trifluoromethoxy-substituted phenyl, benzoyl, phenoxy-carbonyl, benzyl, phenylmethylcarbonyl or phenylmethoxycarbonyl;

$R^2$  represents hydrogen,

15 represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-, acetyl-, propionyl-, n- or i-butyroyl-, methoxycarbonyl-, ethoxycarbonyl-, n- or i-propoxycarbonyl-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, n-, i-, s- or t-pentyl,

20 represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-substituted acetyl, propionyl, n- or i-butyroyl, methoxycarbonyl, ethoxycarbonyl, n- or i-propoxycarbonyl, methylaminocarbonyl, ethylaminocarbonyl, n- or i-propylaminocarbonyl, represents dimethylaminocarbonyl,

25 represents in each case optionally fluorine- and/or chlorine-substituted methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio, methylsulphinyl, ethylsulphinyl, methylsulphonyl or ethylsulphonyl,  
30 represents in each case optionally fluorine-, chlorine- and/or bromine-substituted propenyl, butenyl, propynyl or butynyl,

represents in each case optionally fluorine-, chlorine- or methyl-substituted cyclopropyl, cyclopropylcarbonyl or cyclopropylmethyl,

5 represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, difluoromethoxy- or trifluoromethoxy-substituted phenyl, benzoyl, phenoxy-carbonyl, phenylaminocarbonyl, benzyl, phenylmethyl-  
10 carbonyl or phenylmethoxycarbonyl, or

represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, difluoro-  
15 methoxy- or trifluoromethoxy-substituted heterocyclyl, heterocyclyl-carbonyl or heterocyclylalkyl from the group consisting of furyl, furyl-carbonyl, furylmethyl, thienyl, thienylcarbonyl, thienylmethyl, pyrrolidinyl, pyrrolyl, indolyl, pyrrolylmethyl, pyrazolyl, pyrazolyl-methyl, isoxazolyl, piperidinyl, morpholinyl, thiomorpholinyl, 3-oxo-  
20 morpholinyl, 3-oxothiomorpholinyl, piperazinyl, pyridinyl, pyridinyl-methyl;

$R^3$  represents hydrogen, represents in each case optionally fluorine-  
25 and/or chlorine-substituted methyl, ethyl, n- or i-propyl, methylthio, ethylthio, n- or i-propylthio, or represents phenyl, or – if m represents 2 – optionally also together with a second radical  $R^3$  represents oxygen, propane-1,3-diyl or butane-1,4-diyl;

$R^4$  represents hydroxyl, represents formyloxy, represents in each case  
30 optionally fluorine- and/or chlorine-substituted methoxy, ethoxy, n- or i-propoxy, methylthio, ethylthio, n- or i-propylthio, methylsulphinyl,

ethylsulphinyl, methylsulphonyl, ethylsulphonyl, acetyloxy, propionyloxy, n- or i-butyroxyloxy, methoxycarbonyloxy, ethoxycarbonyloxy, n- or i-propoxycarbonyloxy, methylaminocarbonyloxy, ethylaminocarbonyloxy, n- or i-propylaminocarbonyloxy, methylsulphonyloxy, ethylsulphonyloxy, n- or i-propylsulphonyloxy, represents in each case optionally fluorine- and/or chlorine-substituted propenyloxy, butenyloxy, propynyloxy or butynyloxy, represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, difluoromethoxy- or trifluoromethoxy-substituted phenyloxy, phenylthio, phenylsulphinyl, phenylsulphonyl, phenylcarbonyloxy, phenylcarbonylmethoxy, phenylsulphonyloxy, phenylmethoxy, phenylmethylthio, phenylmethysulphinyl or phenylmethysulphonyl, represents in each case optionally cyano-, oxo-, fluorine-, chlorine-, methyl-, ethyl-, methoxy-, ethoxy-, methylthio-, ethylthio-substituted pyrrolyl, pyrrolinyl, pyrrolidinyl, pyrazolyl, pyrazolinyl, pyrazolidinyl, imidazolyl, imidazolinyl, imidazolidinyl, triazolyl, triazolinyl, triazolidinyl, tetrazolyl, tetrazolinyl, tetrazolidinyl, oxazolyl, oxazolinyl, oxazolidinyl, isoxazolyl, isoxazolinyl, isoxazolidinyl, thiazolyl, thiazolinyl, thiazolidinyl, thiadiazolyl, indolyl, piperidinyl, piperazinyl, oxazinyl, thiazinyl, morpholinyl;

R<sup>5</sup> represents hydrogen, cyano, fluorine, chlorine, represents in each case optionally fluorine- and/or chlorine-substituted methyl, ethyl, n- or i-propyl, methoxy, ethoxy, n- or i-propoxy, methylthio, ethylthio, n- or i-propylthio, methylsulphinyl, ethylsulphinyl, methylsulphonyl, ethylsulphonyl, methoxycarbonyl, ethoxycarbonyl, n- or i-propoxycarbonyl, or represents optionally cyano-, fluorine-, chlorine- or methyl-substituted cyclopropyl;

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- $R^6$  represents hydrogen, represents in each case optionally cyano-, fluorine-, chlorine-, methoxy- or ethoxy-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, represents in each case optionally fluorine- or chlorine-substituted propenyl, butenyl, propynyl or butynyl, represents in each case optionally fluorine-, chlorine- or methyl-substituted cyclopropyl, cyclobutyl, cyclopentyl or cyclohexyl, or represents in each case optionally fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, difluoromethoxy- or trifluoromethoxy-substituted phenyl or phenylmethyl;
- $R^7$  represents hydroxyl, represents formyloxy, represents in each case optionally alkyl-, cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-substituted methoxy, ethoxy, n- or i-propoxy, acetyloxy, propionyloxy, n- or i-butyroxyloxy, methoxycarbonyloxy, ethoxycarbonyloxy, n- or i-propoxycarbonyloxy, methylaminocarbonyloxy, ethylaminocarbonyloxy, n- or i-propylaminocarbonyloxy, ethoxycarbonylmethoxy, methoxycarbonylmethoxy, methylsulphonyloxy, ethylsulphonyloxy, n- or i-propylsulphonyloxy, represents in each case optionally fluorine- and/or chlorine-substituted propenyloxy, butenyloxy, propynyloxy or butynyloxy, or represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, difluoromethoxy- or trifluoromethoxy-substituted phenylmethoxy, phenylcarbonyloxy, phenylcarbonylmethoxy or phenylsulphonyloxy;
- $R^8$  represents hydrogen, represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-, acetyl-, propionyl-, methoxycarbonyl- or ethoxycarbonyl-substituted methyl, ethyl, n- or i-propyl,

represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-substituted acetyl, propionyl, methoxycarbonyl or ethoxycarbonyl,

5

represents in each case optionally fluorine- and/or chlorine-substituted methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio, methylsulphinyl, ethylsulphinyl, methylsulphonyl or ethylsulphonyl,

10

represents in each case optionally fluorine-, chlorine- and/or bromine-substituted propenyl, butenyl, propynyl or butynyl, represents in each case optionally fluorine-, chlorine- or methyl-substituted cyclopropyl, cyclopropylcarbonyl or cyclopropylmethyl,

15

represents in each case optionally cyano-, nitro-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, s- or i-propoxy-, difluoromethoxy- or trifluoromethoxy-substituted phenyl, benzoyl, phenoxy-carbonyl, benzyl, phenylmethylcarbonyl or phenylmethoxycarbonyl;

20

R<sup>9</sup> represents hydrogen, represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-, acetyl-, propionyl-, methoxycarbonyl- or ethoxycarbonyl-substituted methyl, ethyl, n- or i-propyl,

25

represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-substituted acetyl, propionyl, methoxycarbonyl or ethoxycarbonyl,

represents in each case optionally fluorine- and/or chlorine-substituted methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio, methylsulphinyl, ethylsulphinyl, methylsulphonyl or ethylsulphonyl,

5 represents in each case optionally fluorine-, chlorine- and/or bromine-substituted propenyl, butenyl, propynyl or butynyl, represents in each case optionally fluorine-, chlorine- or methyl-substituted cyclopropyl, cyclopropylcarbonyl or cyclopropylmethyl, or

10 represents in each case optionally cyano-, nitro-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, s- or i-propoxy-, difluoromethoxy- or trifluoromethoxy-substituted phenyl, benzoyl, phenoxy-carbonyl, benzyl, phenylmethylcarbonyl or phenylmethoxycarbonyl or

15 together with  $R^2$  and the nitrogen to which they are attached represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, difluoromethoxy- or trifluoromethoxy-substituted pyrrolidinyl, oxopyrrolidinyl, pyrrolyl, indolyl, pyrazolyl, oxazolyl, isoxazolyl, dihydropyranyl, piperidinyl, oxopiperidinyl, morpholinyl, thiomorpholinyl, 3-oxomorpholinyl, 3-oxo-thio-morpholinyl, piperazinyl, imidazolyl, imidazolidinyl, oxo-imidazolidinyl, triazol, triazoliny, tetrazolinyl or pyridinyl;

25  $R^{10}$  represents hydrogen, formyl,

30 represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-, acetyl-, propionyl-, n- or i-butyroyl-, methoxycarbonyl-, ethoxycarbonyl-, n- or i-propoxy-

carbonyl-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, n-, i-, s- or t-pentyl,

5 represents in each case optionally cyano-, fluorine-, chlorine-, methoxy-, ethoxy-, n- or i-propoxy-substituted acetyl, propionyl, n- or i-butyroyl, methoxycarbonyl, ethoxycarbonyl, n- or i-propoxycarbonyl, methylaminocarbonyl, ethylaminocarbonyl, n- or i-propylaminocarbonyl, represents dimethylaminocarbonyl,

10 represents in each case optionally fluorine- and/or chlorine-substituted methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio, methylsulphinyl, ethylsulphinyl, methylsulphonyl or ethylsulphonyl, represents in each case optionally fluorine-, chlorine- and/or bromine-substituted propenyl, butenyl, propynyl or butynyl,

15 represents in each case optionally fluorine-, chlorine- or methyl-substituted cyclopropyl, cyclopropylcarbonyl or cyclopropylmethyl,

20 represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, difluoromethoxy- or trifluoromethoxy-substituted phenyl, benzoyl, phenoxycarbonyl, phenylaminocarbonyl, benzyl, phenylmethylcarbonyl or phenylmethoxycarbonyl, or -

25 represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl, methoxy-, ethoxy-, n- or i-propoxy-, difluoromethoxy- or trifluoromethoxy-substituted heterocyclyl, heterocyclylcarbonyl or heterocyclylalkyl from the group consisting of furyl, furylcarbonyl, furylmethyl, thienyl, thienylcarbonyl, thienylmethyl, pyrrolidinyl,

30

pyrrolyl, indolyl, pyrrolylmethyl, pyrazolyl, pyrazolylmethyl, isoxazolyl, piperidinyl, morpholinyl, piperazinyl, pyridinyl, pyridinylmethyl;

5 X represents hydrogen, nitro, cyano, fluorine, chlorine, bromine, iodine, methyl, ethyl, difluoromethyl, trifluoromethyl, dichloromethyl, trichloromethyl, methoxymethyl, methylthiomethyl, methylsulphinyl-  
10 methyl, methylsulphonylmethyl, methoxy, ethoxy, difluoromethoxy, trifluoromethoxy, methylthio, ethylthio, methylsulphinyl, ethylsulphinyl, methylsulphonyl, ethylsulphonyl or dimethylamino-sulphonyl;

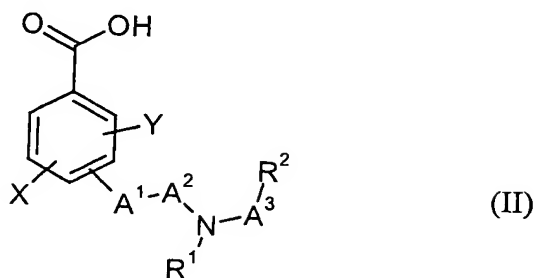
15 Y represents hydrogen, nitro, cyano, fluorine, chlorine, bromine, iodine, methyl, ethyl, difluoromethyl, trifluoromethyl, dichloromethyl, trichloromethyl, methoxymethyl, methylthiomethyl, methylsulphinyl-  
methyl, methylsulphonylmethyl, methoxy, ethoxy, difluoromethoxy, trifluoromethoxy, methylthio, ethylthio, methylsulphinyl, ethyl-  
20 sulphinyl, methylsulphonyl, ethylsulphonyl or dimethylamino-sulphonyl and

m represents the number 0 or 2.

5. Process for preparing compounds of the formula (I) according to any of  
25 Claims 1 to 4, by reacting

a) carboxylic acids of the formula (II)





in which

$A^1, A^2, A^3, R^1, R^2, X$  and  $Y$  are as defined above

- or alkali metal, alkaline earth metal or ammonium salts thereof -

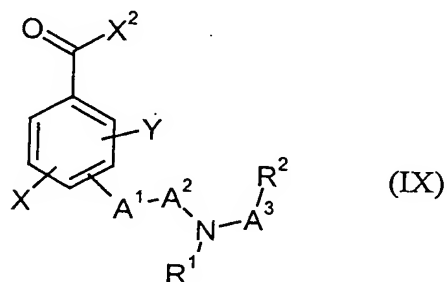
with compounds of the general formula (III)



in which

$Z$  is as defined above, or

b) carboxylic acid derivatives of the formula (IX)



in which

$A^1, A^2, A^3, R^1, R^2, X$  and  $Y$  are as defined above and

$X^2$  represents CN or halogen, preferably Cl, Br, I, imidazolyl or triazolyl

5

with compounds of the formula (III)

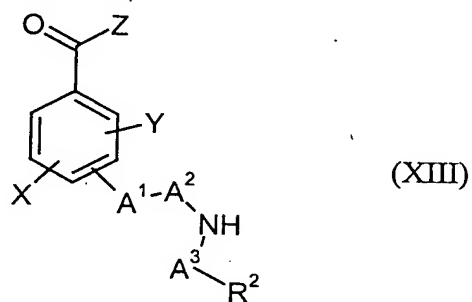


in which

10

Z is as defined above, or

c) compounds of the formula (XIII)



15

in which

$A^1, A^2, A^3, R^2, X, Y$  and Z are as defined above

with compounds of the formula (XI)

20



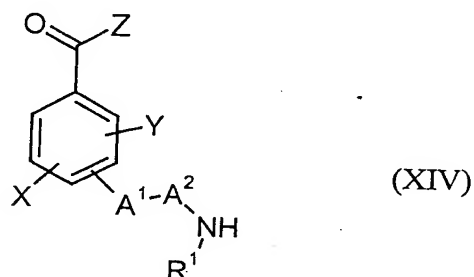
in which

25

$R^1$  is as defined above and

$X^1$  represents halogen, arylsulphonate or alkylsulphonate, preferably chlorine, bromine, iodine, mesylate or tosylate, or

5 f) compounds of the formula (XIV)

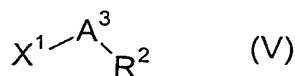


in which

10

$A^1$ ,  $A^2$ ,  $R^1$ ,  $X$ ,  $Y$  and  $Z$  are as defined above

with compounds of the formula (V)



15

in which

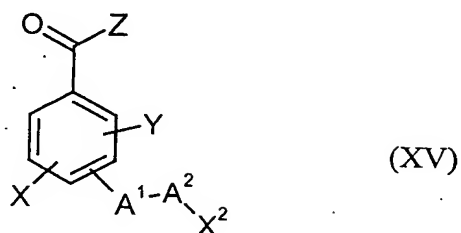
$A^3$  and  $R^2$  are as defined above and

20

$X^1$  represents halogen or tosylate, preferably chlorine, bromine or tosylate, or

g) compounds of the formula (XV)

25

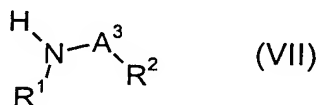


in which

$A^1$ ,  $A^2$ , X, Y and Z are as defined above and

$X^2$  represents halogen or tosylate, preferably chlorine, bromine or tosylate

with compounds of the formula (VII)



in which

$A^3$ ,  $R^1$  and  $R^2$  are as defined above,

if appropriate in the presence of one or more reaction auxiliaries and if appropriate in the presence of one or more diluents.

6. Compound of the formula (IX)

20



in which

5       $A^1, A^2, A^3, R^1, R^2, X$  and  $Y$  are as defined in any of Claims 1 to 4 and

X<sup>2</sup> represents halogen, cyano, imidazolyl or triazolyl.

10      7.      Process for preparing compounds of the formula (IX) by reacting carboxylic acids of the formula (II)

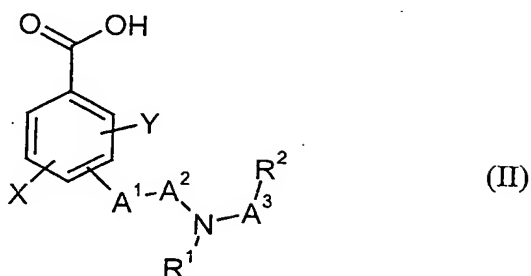


15 in which

A<sup>1</sup>, A<sup>2</sup>, A<sup>3</sup>, R<sup>1</sup>, R<sup>2</sup>, X and Y are as defined above with suitable activating reagents,

20 if appropriate in the presence of one or more reaction auxiliaries and if  
appropriate in the presence of one or more diluents.

8. Compound of the formula (II)



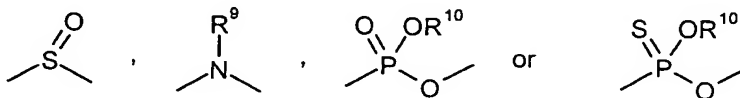
in which

X, Y, A<sup>1</sup>, A<sup>2</sup>, A<sup>3</sup>, R<sup>1</sup> and R<sup>2</sup> are as defined in any of Claims 1 to 4,

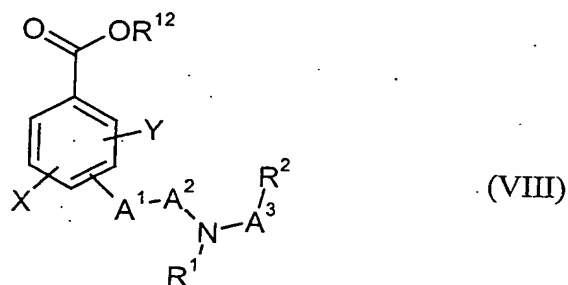
- except for the compounds 3,4-difluoro-2-(N-methyl-N-methylsulphonylaminomethyl)benzoic acid, 2-(N-methyl-N-methylsulphonylaminomethyl)-4-trifluoromethylbenzoic acid, 4-fluoro-2-(N-methyl-N-methylsulphonylaminomethyl)benzoic acid, 2-(N-methyl-N-methylsulphonylaminomethyl)benzoic acid, 4-chloro-2-(N-methyl-N-methylsulphonylaminomethyl)benzoic acid, 4-chloro-3-fluoro-2-(N-methyl-N-methylsulphonylaminomethyl)benzoic acid, 4-chloro-3-(N-methyl-N-methylsulphonylaminomethyl)-2-methylthiobenzoic acid and 2-chloro-3-(methylsulphonylaminomethyl)-4-methylsulphonylbenzoic acid.

9. Compound according to Claim 8 in which

A<sup>3</sup> represents O, S, the grouping



10. Process for preparing compounds of the formula (II) according to Claim 8 or 9 by reacting compounds (VIII)



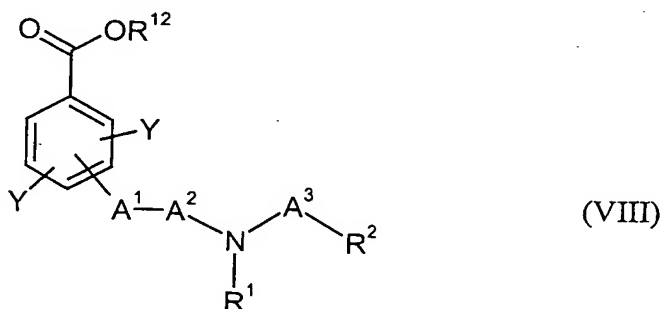
5

in which

$A^1$ ,  $A^2$ ,  $A^3$ ,  $R^1$ ,  $R^2$ , X and Y are as defined in any of Claims 1 to 4 and

- 10  $R^{12}$  represents  $C_1$ - $C_4$ -alkyl, in particular methyl, ethyl, n-, i-propyl, n-, s-, i-, t-butyl, represents allyl or benzyl, under reductive or alkaline conditions in the presence of one or more reaction auxiliaries and if appropriate in the presence of one or more diluents.

- 15 11. Compound of the formula (VIII)



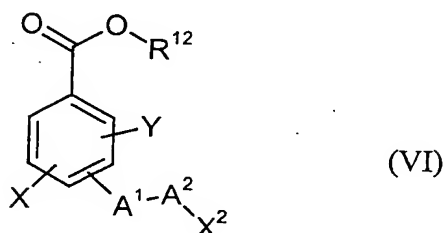
in which

- 20  $A^1$ ,  $A^2$ ,  $A^3$ ,  $R^1$ ,  $R^2$ , X and Y are as defined in any of Claims 1 to 4 and

$R^{12}$  represents  $C_1$ - $C_4$ -alkyl, allyl or benzyl.

12. Process for preparing compounds of the formula (VIII) according to Claim 11 by reacting

h) compounds of the formula (VI)

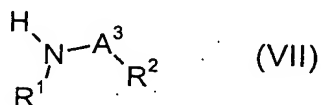


in which

$A^1$ ,  $A^2$ , X and Y are as defined above and

$R^{12}$  represents  $C_1$ - $C_4$ -alkyl, in particular methyl, ethyl, n-, i-propyl, n-, s-, i-, t-butyl, represents allyl or benzyl,

with compounds of the formula (VII)

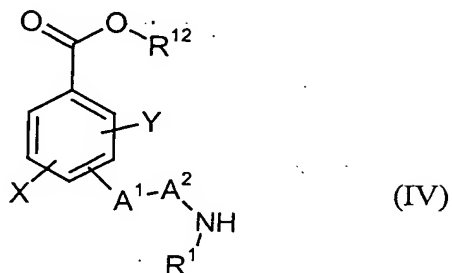


if appropriate in the presence of one or more reaction auxiliaries and if appropriate in the presence of one or more diluents,

or



i) compounds of the formula (IV)

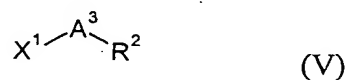


in which

$A^1$ ,  $A^2$ ,  $R^1$ , X and Y are as defined above and

$R^{12}$  represents  $C_1$ - $C_4$ -alkyl, in particular methyl, ethyl, n-, i-propyl, n-, s-, i-, t-butyl, represents allyl or benzyl,

with compounds of the formula (V)



in which

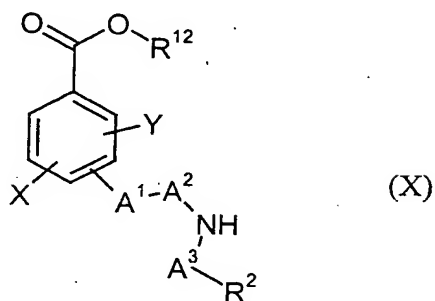
$A^3$  and  $R^2$  are as defined above and

$X^1$  represents halogen (preferably fluorine, chlorine, bromine or iodine, in particular chlorine, bromine or iodine),

if appropriate in the presence of one or more reaction auxiliaries and if appropriate in the presence of one or more diluents,

or

j) compounds of the formula (X)

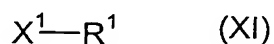


in which

$A^1$ ,  $A^2$ ,  $A^3$ ,  $R^2$ , X and Y are as defined in any of Claims 1 to 4 and

$R^{12}$  represents  $C_1$ - $C_4$ -alkyl, in particular methyl, ethyl, n-, i-propyl, n-, s-, i-, t-butyl, represents allyl or benzyl,

with compounds of the formula (XI)



in which

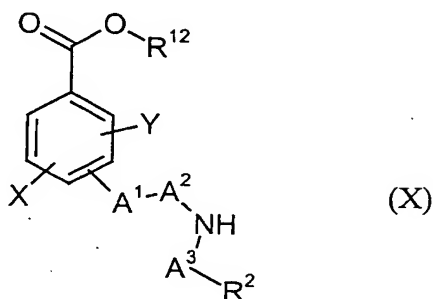
$R^1$  is as defined above and

$X^1$  represents halogen (preferably fluorine, chlorine, bromine or iodine, in particular chlorine, bromine or iodine),

if appropriate in the presence of one or more reaction auxiliaries and if appropriate in the presence of one or more diluents,

or

k) compounds of the formula (X)

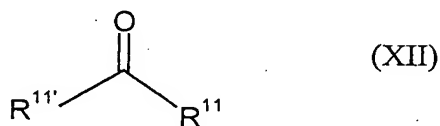


in which

$A^1$ ,  $A^2$ ,  $A^3$ ,  $R^2$ ,  $X$  and  $Y$  are as defined above and

$R^{12}$  represents  $C_1$ - $C_4$ -alkyl, in particular methyl, ethyl, n-, i-propyl, n-, s-, i-, t-butyl

with compounds of the formula (XII)



in which

$R^{11'}$  and  $R^{11}$  independently of one another represent hydrogen, represent optionally cyano-, halogen-,  $C_1$ - $C_4$ -alkoxy-,  $C_1$ - $C_4$ -alkylthio-,  $C_1$ - $C_4$ -alkylsulphanyl- or  $C_1$ - $C_4$ -alkylsulphonyl-substituted alkyl having 1 to 6 carbon atoms, represent in each case optionally cyano- or halogen-substituted alkenyl or alkynyl having in each case 3 to 6 carbon atoms, represent in each case optionally cyano-, halogen- or  $C_1$ - $C_4$ -alkyl-substituted

cycloalkyl or cycloalkylalkyl having in each case 3 to 6 carbon atoms in the cycloalkyl group and, if appropriate, 1 to 4 carbon atoms in the alkyl moiety, or represent in each case optionally nitro-, cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkyl-, C<sub>1</sub>-C<sub>4</sub>-haloalkyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-haloalkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkylthio-, C<sub>1</sub>-C<sub>4</sub>-haloalkylthio-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphinyl-, C<sub>1</sub>-C<sub>4</sub>-haloalkylsulphinyl-, C<sub>1</sub>-C<sub>4</sub>-alkylsulphonyl- or C<sub>1</sub>-C<sub>4</sub>-haloalkylsulphonyl-substituted aryl or arylalkyl having in each case 6 or 10 carbon atoms in the aryl group and, if appropriate, 1 to 4 carbon atoms in the alkyl moiety,

in the presence of a reducing agent, preferably a borane or a BH<sub>3</sub> adduct,

if appropriate in the presence of one or more reaction auxiliaries and if appropriate in the presence of one or more diluents.

13. Pesticides, characterized in that they comprise at least one compound of the formula (I) according to any of Claims 1 to 4 or a compound of the formula (II) according to Claim 8 or 9 or a compound of the formula (VIII) according to Claim 11.
14. Use of compounds of the formula (I) according to any of Claims 1 to 4, compounds of the formula (II) according to Claim 8 or 9 and/or compounds of the formula (VIII) according to Claim 11 for controlling pests.
15. Method for controlling pests, characterized in that compounds of the formula (I) according to any of Claims 1 to 4, compounds of the formula (II) according to Claim 8 or 9 and/or compounds of the formula (VIII) according to Claim 11 are allowed to act on pests and/or their habitat.

- 5
16. Process for preparing pesticides, characterized in that compounds of the formula (I) according to any of Claims 1 to 4, compounds of the formula (II) according to Claim 8 or 9 and/or compounds of the formula (VIII) according to Claim 11 are mixed with extenders and/or surfactants.
  17. Use of compounds of the formula (I) according to any of Claims 1 to 4, compounds of the formula (II) according to Claim 8 or 9 and/or compounds of the formula (VIII) according to Claim 11 for preparing pesticides.